

CLAIMS

1. A flexible, armoured pipe, the pipe comprising

5 (A) an inner liner (3); and

(B) a spirally-wound pressure amour (5,6) surrounding said inner liner;
said pressure amour comprising

10 (a) a number of adjoining armour profiles (10, 16, 17), each of
said profiles having a number of recesses (10a, 10b, 10c, 10d),
at least two of said recesses being provided along surfaces of
said adjoining armour profiles forming a cavity (19) therebetween,
and

15 (b) a number of locking profiles (11), said locking profiles being
adapted to hold together said adjoining profiles;

characterized in that said at least two recesses are locking recesses and
that said formed cavity accommodates a locking element (12, 14, 62, 18).

20 2. The pipe according to claim 1 *characterized in* that an amour profile is
configured as a K-profile with four recesses.

25 3. The pipe according to claim 2 *characterized in* that the K-profile has
two recesses (13) which are arranged in the corners of the profile, and
that an I-profile (15) is provided in the cavity which is formed by the two
recesses in adjoining profiles.

30 4. A pipe according to any one of claims 1 – 3 *characterized in* that the
locking element wholly or partly fills out the cavity.

5. A pipe according to any one of claims 1 – 4 *characterized in* that the locking element (14) is configured as an I-profile.
6. A pipe according to any one of claims 1 – 3 *characterized in* that the at least two recesses (61a, 61d) are semicircular in shape.
7. The pipe according to claim 6 *characterized in* that the locking element is configured with a substantially circular cross-section.
8. A pipe according to any one of claims 1 - 6 *characterized in* that the locking element is made of an elastic, deformable material.
9. A pipe according to any one of claims 1 – 4 *characterized in* that the locking element is configured as a wire with a C-shaped cross-section.
10. A pipe according to any one of claims 1 – 9 *characterized in* that the locking profiles are C-shaped.
11. A pipe according to any one of claims 1 – 10 *characterized in* that the profiles consist of a material which wholly or partly is made of metal, a metal alloy or a ceramic-reinforced metal material.
12. A pipe according to any one of claims 1 – 11 *characterized in* that the profiles consist of a material which wholly or partly is made of a polymer or an armoured polymer.
13. A pipe according to any one of claims 1 – 12, *characterized in* that the inner liner surrounds a carcass, and that the carcass is configured as the pressure armour according to claim 1 or 2 or any one of claims 4 – 9.

14. Use of a flexible, armoured pipe according to any of the claims 1 – 13 for the transport of fluids, such as water, ammonia or hydrocarbons.